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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/572,565	03/17/2006	Kazushi Torii	12480-000166/US	5063
	7590 10/28/2009 NICKEY & PIERCE, P.L.C.		EXAMINER	
P.O. BOX 8910 RESTON, VA 20195			BOYLE, ROBERT C	
RESTON, VA	20193		ART UNIT	PAPER NUMBER
			1796	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/572,565	TORII ET AL.
Office Action Summary	Examiner	Art Unit
	ROBERT C. BOYLE	1796
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with the o	correspondence address
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perionally reply or perionally reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the main earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 1.136(a). In no event, however, may a reply be tind will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
1) ☐ Responsive to communication(s) filed on 17 2a) ☐ This action is FINAL . 2b) ☐ Th 3) ☐ Since this application is in condition for allow closed in accordance with the practice under	nis action is non-final. vance except for formal matters, pro	
Disposition of Claims		
4) ☐ Claim(s) 1-31 is/are pending in the application 4a) Of the above claim(s) 1-2, 5-19, 24-31 is 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 3,4 and 20-23 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and Application Papers	/are withdrawn from consideration. /or election requirement.	
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) according a deplicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the I	ccepted or b) objected to by the le drawing(s) be held in abeyance. Se ection is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority docume 2. ☐ Certified copies of the priority docume 3. ☐ Copies of the certified copies of the prapplication from the International Bure * See the attached detailed Office action for a list	nts have been received. nts have been received in Applicat iority documents have been receive eau (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate

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DETAILED ACTION

Response to Amendment

1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

2. The new grounds of rejection set forth below are NOT necessitated by applicant's amendment filed on March 17, 2009, but results from additional relevant reference found after updating the prior art search. Thus, the following action is properly made NON-FINAL.

Information Disclosure Statement

3. Applicant has requested consideration of the corrected IDS filed on December 7, 2006. However, this document is not on record.

Election/Restrictions

- 4. Applicant's election without traverse of Group II, claims 3-4, 20-23, in the reply filed on March 17, 2009 is acknowledged.
- 5. Claims 1-2, 5-19, 24-31 withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected inventions, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on March 17, 2009.

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Double Patenting

- 6. Claims 3-4 and 22-23 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 9-11 of copending Application No. 11/540,478.
- 7. The rejection is adequately set forth in paragraphs 9-10 in the office action mailed on March 17, 2009 and is incorporated here by reference.
- 8. Claims 3-4 and 21-23 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-5 of copending Application No. 10/593,706.
- 9. The rejection is adequately set forth in paragraph 11 in the office action mailed on March 17, 2009 and is incorporated here by reference.
- 10. Claims 3-4 and 22-23 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-12 and 17 of copending Application No. 10/577,355.
- 11. The rejection is adequately set forth in paragraph 12 in the office action mailed on March 17, 2009 and is incorporated here by reference.

Claim Rejections - 35 USC § 103

12. Claims 3-4, 20-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Adachi** (US 2005/0049379).

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- 13. As to claims 3-4, Adachi teaches a water absorbent of surface crosslinked resin particles of crosslinked polyacrylic acid where (a) the particles have a diameter of 850-150 μ m and the content of particles smaller than 850 μ m but not smaller than 150 μ m is not lower than 90 mass%, (b) the logarithmic standard deviation is in the range of 0.1-0.4, (c) the CRC in saline is not less than 5 g/g, (d) the absorption capacity with a load, corresponding to AAP, is not less than 20 g/g (abstract; ¶ 42, 47, 64-68, 86-101, 125-129). Adachi does not teach a "chemical cross-linking index against pressure" presented in formula 2 in claim 1. However, it is noted that the values of the CRC range plus values of the 'absorption capacity with a load' range taught by Adachi would overlap the claimed limitation of 100 or more: (5 g/g or more) + (20 g/g or more) = 25 g/g or more.
- 14. It is well settled that where prior art describes the components of a claimed compound or compositions in concentrations within or overlapping the claimed concentrations a prima facie case of obviousness is established. See MPEP 2144.05; *In re Harris*, 409, F3.d 1339, 1343, 74 USPQ2d 1951, 1953 (Fed. Cir 2005); *In re Peterson*, 315 F.3d 1325, 1329, 65 USPQ 3d 1379, 1382 (Fed. Cir 1997); *In re Woodruff*, 919 F.2d 1575, 1578, 16 USPQ2d 1934, 1936-37 (CCPA 1990); *In re Malagari*, 499 F.2d 1297, 1303, 182 USPQ 549, 553 (CCPA 1974).
- 15. As to claim 20, Adachi teaches using phosphates as internal crosslinking agents (¶ 65, 71, 104).
- 16. Claims 21-22 state properties of the water absorbent: saline flow conductivity. While Adachi does not elaborate on the property, Adachi teaches essentially the same water absorbent and process as that of the claimed, and one of ordinary skill in the art would have a reasonable basis to believe the water absorbent of Adachi exhibits essentially the same properties. Since the

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PTO cannot conduct experiments, the burden of proof is shifted to the applicants to establish an

unobvious difference. See In re Best, 562 F.2d 1252, 195 USPQ 430 (CCPA 1977).

17. Even if properties of the water absorbent of the instant claims and the prior art examples

are not the same, it would still have been obvious to one of ordinary skill in the art to make a

water absorbent having the claimed properties because it appears that the references generically

embrace the claimed water absorbent and one of ordinary skill in the art would have expected all

embodiments of the reference to work. Applicants have not demonstrated that the differences, if

any, between the claimed water absorbent and the prior art give rise to unexpected results.

18. As to claim 23, Adachi teaches the addition of inorganic particles such as kaolin to the

water absorbent (¶ 199).

19. Claims 3-4 and 20-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Nakashima (WO/02/100451).

20. The rejection is adequately set forth in paragraphs 20-25 in the office action mailed on

March 17, 2009 and is incorporated here by reference.

Response to Arguments

Claim Rejections under 35 U.S.C. 103 (Whitmore)

21. Applicant's arguments with respect to Whitmore filed June 26, 2009 have been

considered but are moot in view of the new ground(s) of rejection.

Claim Rejections under 35 U.S.C. 103 (Nakashima)

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- 22. Applicant's arguments filed June 26, 2009 with respect to Nakashima have been fully considered but they are not persuasive.
- 23. Applicant argues that Nakashima does not teach the limitations regarding the logarithmic standard deviation because Nakashima explicitly teaches the particles include at least two members of A1-A4, where A1 has particles 850-600 μm, A2 is 600-500 μm, etcetera.
- 24. This is not persuasive because Applicant has not shown that the ranges taught by Nakashima would necessarily fall outside the claimed range. It is the examiner's understanding that standard deviation is dependent on the distribution of the particle size. Therefore, a broad distribution leads to a broad standard deviation, and a narrow distribution leads to a narrow standard deviation. This will likewise affect the logarithmic standard deviation.
- 25. Applicant merely asserts that a combination of particle size ranges falls outside the claimed logarithmic standard deviation. Without additional evidence, Applicant's argument is not persuasive.
- 26. Applicant argues that Nakashima does not teach the limitations regarding the CRC range because Nakashima states the CRC is "not less than 31 g/g" (Nakashima: p 44) and the example of 13d is only a constituent of the water absorbing agent 13 (Nakashima: Table 2). This is not persuasive because particle 13d can act as a water absorbing agent in of itself, absent the other particles, as evidenced by the water absorption data collected and displayed in Table 2 and Nakashima stating "The results of measure the water-absorbing agents (13-a), (13-b), (13-c), and (13-d) as obtained were listed in Table 2." See p. 74, ln. 2-3. Therefore, the particles 13d fall within the scope of claim 3.

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27. Applicant argues that Nakashima teaches away from the claimed CRC range because Nakashima states the CRC is "not less than 31 g/g", "more favaorably not less than 32 g/g" etcetera (Nakashima: p 44). This is not persuasive.

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- 28. "The prior art's mere disclosure of more than one alternative does not constitute a teaching away from any of these alternatives because such disclosure does not criticize, discredit, or otherwise discourage the solution claimed...." *In re Fulton*, 391 F.3d 1195, 1201, 73 USPQ2d 1141, 1146 (Fed. Cir. 2004). Also, a preferred embodiment is not controlling, rather, all disclosures "including unpreferred embodiments" must be considered. *In re Lamberti* 192 USPQ 278, 280 (CCPA 1976) citing *In re Mills* 176 USPQ 196 (CCPA 1972).
- 29. Because Nakashima does not discredit the ranges below 31 g/g, and teaches an embodiment that falls within the claimed range (Nakashima: Example 13, Table 2), Nakashima does not teach away from the claimed invention.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ROBERT C. BOYLE whose telephone number is (571)270-7347. The examiner can normally be reached on Monday-Thursday, 9:00AM-5:00PM Eastern.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vasu Jagannathan can be reached on (571)272-1119. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/ROBERT C BOYLE/ Examiner, Art Unit 1796

/Vasu Jagannathan/ Supervisory Patent Examiner, Art Unit 1796